Map of parcels at 35 kft on 04071219 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04071219 2.5 2.0 Days Since 1.0 NASA/ARC Last Image Used is 0407121845 **PSL** 1634 Trajectories

Map of parcels at 35 kft on 04071219 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate etapsed time between convection and 04071219 4.5 Days Since Convection 4.0 3.5 3.0 2.5 NASA/ARC **PSL** Last Image Used is 0407121845 1634 Trajectories

Map of parcels at 35 kft on 04071219 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04071219 7.0 Days Since Convection 6.5 6.0 5.5 5.0 NASA/ARC **PSL** Last Image Used is 0407121845 1634 Trajectories

Map of parcels at 35 kft on 04071219 influenced by convection 7.5 to 10.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04071219 9.5 Days Since Convection 9.0 8.5 8.0 7.5 NASA/ARC **PSL** Last Image Used is 0407121845 1634 Trajectories